



CHEMISTRY

BOOKS - JMD CHEMISTRY (PUNJABI ENGLISH)

GENEREAL PRINCIPLES AND PROCESS OF ISOLATION OF ELEMENTS

Exercise

1. The early impurities associated with mineral used in metallurgy are called?

A. Slag

B. Flux

C. Gangue

D. Ore

Answer: C



Watch Video Solution

2. In the electrorefining of copper, some gold is deposited as:

- A. anode mud
- B. cathode mud
- C. cathode
- D. electrolyte

Answer: A



Watch Video Solution

3. During smelting

A. slag

B. mud

C. gangue

D. flux

Answer: D



Watch Video Solution

4. Most abundant metal on the surface of earth is:

A. iron

B. aluminium

C. calcium

D. sodium

Answer: B



Watch Video Solution

5. The most abundant element in earth crust is: Si, aluminium, O, Fe

A. Si

B. aluminium

C. O

D. Fe

Answer: C



Watch Video Solution

6. Purest form of iron is

A. cast iron

B. wrought iron

C. steel

D. pig iron

Answer: B



Watch Video Solution

7. Metal always found in free state is

A. gold

B. silver

C. copper

D. sodium

Answer: A



Watch Video Solution

8. The chemical formula of copper pyrite is:

$\text{CuFeS}_2, \text{Cu}_2\text{S}, \text{Cu}_2\text{O}, \text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$

A. CuFeS

B. Cu_2S

C. Cu_2O

D. $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$

Answer: A



Watch Video Solution

9. Malachite is an ore of,

A. Iron

B. Zinc

C. COpper

D. Mercury

Answer: C



Watch Video Solution

10. Which of the following ore is best concentrated by froth floating process?

Magnetite, galena, Malachite, Cassiterite

A. Magnetite

B. galena

C. Malachite

D. Cassiterite

Answer: B



Watch Video Solution

11. Magnetic separation is used in the concentration of: Copper pyrites, Chromite, Bauxite, Cinnabar.

A. Copper pyrites

B. Chromite

C. Bauxite

D. Cinnabar

Answer: B



Watch Video Solution

12. Which of the following is magnetite?

Fe_3O_4 , Fe_2O_3 , $Fe_2O_3 \cdot 3H_2O$, Fe_2CO_3 .

A. Fe_3O_4

B. Fe_2O_3

C. $Fe_2O_3 \cdot 3H_2O$

D. Fe_2CO_3

Answer: A



Watch Video Solution

13. The most abundant element in the earth's crust is:

A. Oxygen

B. Aluminium

C. Silicon

D. None of these

Answer: A



Watch Video Solution

14. Which method of refining is used when a metal of high degree of purity is needed ?

A. Zone refining

B. Van Arkel's Method

C. Liquation

D. Chromatography

Answer: A



Watch Video Solution

15. Write the name of purest form of iron.

A. Cast iron

B. Wrought iron

C. Steel

D. Pig iron

Answer: B



Watch Video Solution

16. Zone refining is used for the

- A. Concentration of an ore
- B. Reduction of metal oxide
- C. Purification of metal
- D. purification of an ore

Answer: C



Watch Video Solution

17. Cinnabar is an ore of

A. *Hg*

B. Zn

C. Cu

D. Na

Answer: A



Watch Video Solution

18. Metal always found in free state is

A. Au

B. Ag

C. *Cu*

D. *Na*

Answer: A



Watch Video Solution

19. The process of employed for the concentration of sulphide ore is

A. Froth-floatation

B. Roasting

C. Electrolysis

D. Calcination

Answer: A



Watch Video Solution

20. All the minerals are ores.



Watch Video Solution

21. Magnetite is an ore of magnesium



[Watch Video Solution](#)

22. Reduction of an oxide ore with carbon at high temperature is called



[Watch Video Solution](#)

23. Write the name of purest form of iron.



[Watch Video Solution](#)

24. Electrolytic refining of metals is used to get metals of very high purity.



Watch Video Solution

25. Explain Mond's process used for refining of nickel.



Watch Video Solution

26. The product obtained from blast furnace is called cast iron.



Watch Video Solution

27. Sulphide ores are concentrated by froth floatation process.



Watch Video Solution

28. Define roasting



[Watch Video Solution](#)

29. Zinc is used to displace gold from an aqueous solution of gold complex because zinc is volatile in nature



[View Text Solution](#)

Example

1. Fill in the blanks: All the ores are.....



[Watch Video Solution](#)

2. Name two ores of Cu and give chemical formula.



[Watch Video Solution](#)

3. Name two principal ores and give chemical formula.

Aluminium.



[Watch Video Solution](#)

4. Name two principal ores and give chemical formula.

Iron.



[Watch Video Solution](#)

5. Give two ores of Zinc.



[Watch Video Solution](#)

6. Write short note on magnetic separation. Name one ore which can be concentrated by magnetic separation.



[Watch Video Solution](#)

7. What is leaching ?



[Watch Video Solution](#)

8. What is the role of leaching in the extraction of aluminium ? Write all the chemical reactions involved in it.



[Watch Video Solution](#)

9. Sulphide ores are concentrated by froth floatation process.



[Watch Video Solution](#)

10. Define calcination and roasting.



Watch Video Solution

11. What is smelting ?



Watch Video Solution

12. State and explain the terms flux and slag.



Watch Video Solution

13. Write chemical reactions taking place in the extraction of ADC from zinc blend.



Watch Video Solution

14. State the role of silica in the metallurgy of copper.



Watch Video Solution

15. What is the role of cryolite in the metallurgy of aluminium ?



Watch Video Solution

16. What is the role of graphite in the electrometallurgy of aluminium ?



Watch Video Solution

17. Explain Mond's process used for refining of nickel.



Watch Video Solution

18. What is the principle of zone refining ?



Watch Video Solution

19. Explain Van Arkel method.



Watch Video Solution

20. Write a short note on electrolytic refining of copper.



Watch Video Solution